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LABOR FORCE PROJECTIONS FOR NORTH DAKOTA, 1980-2000

by

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North Dakota's industrial base is becoming more diversified. The state has traditionally relied on agriculture, but other industries are increasing in importance. During the late 1970s and early 1980s the energy industry brought hundreds of workers into the state's communities and millions of dollars into its economy. Because both agriculture and energy currently face difficult times, other industries are being encouraged and developed to bolster North Dakota's economy.

New businesses are needed in North Dakota to aid the state's growth and a strong labor force is needed to work in these businesses. The purpose of this report is to project the potential labor force of North Dakota in 1985, 1990, 1995, and 2000.

Methods

As with any series of projections, our glimpse into the future depends on the assumptions used in the calculations. The assumptions used to develop these labor force projections include those pertaining to changes in total population and those pertaining to labor force participation rates.

First, assumptions need to be made regarding changes in the population. One factor affecting population change is an increase or decrease in rates of births and deaths. Birth and death rates for North Dakota have remained relatively constant over the past decade. The crude birth rates in 1976 and 1986 were 16.6 and 15.9, respectively. The state's crude death rates for 1976 and 1986 were 8.5 and 7.8, respectively (North Dakota State Department of Health, 1986). A second factor affecting population change is the rate by which people enter the state (in-migration) versus leave the state (out-migration). Migration patterns in North Dakota have fluctuated from year to year depending on the state's economic condition.

In 1982 Rathge and Leistritz prepared population projections for the state by age, gender, and county for 1985, 1990, 1995, and 2000. Using various scenarios of birth, death, and migration rates, they calculated two series of population projections. One series offered a "high" set of projections and the second series offered a "low" set.

Because of the fluctuations in North Dakota's economy as a result of downturns in the agriculture and energy industries during the early 1980s, the state's migration rates have been appreciably impacted. This is particularly true in rural counties and particularly in the west-central region. To account for these changes in migration rates, Rathge and his associates revised their 1982 report in 1985 with a second set of projections offering a "high" and a "low" series. Thus, based on differing assumptions, four sets of population projections are available: a "high" and "low" series from the 1982 report and a "high" and "low" series from the 1985 report.

Each year the United States Bureau of the Census calculates population estimates for counties. These estimates serve as the most accurate measure of county population available. The Census Bureau's 1985 population estimate for North Dakota counties was used as a benchmark to evaluate the comparable accuracy of the four sets of population projections. Table 1 lists the Bureau's 1985 population

TABLE 1. PERCENT DIFFERENCE BETWEEN 1985 CENSUS BUREAU POPULATION ESTIMATE AND FOUR POPULATION PROJECTIONS, NORTH DAKOTA COUNTIES

County	Census Bureau Population Estimates	1982 Report "High" Series	1982 Report "Low" Series	1985 Report "High" Series	1985 Report "Low" Series
Adams	3,486	2.49	- 0.03*	1.01	- 1.70
Barnes	13,446	5.77	2.54*	5.76	5.75
Benson	7,865	6.29	1.60*	7.62	6.19
Billings	1,310	- 8.70*	-20.30	- 9.70	-12.06
Bottineau	9,293	1.12*	- 3.88	2.52	2.45
Bowman	4,348	4.76	0.12*	- 1.96	- 4.62
Burke	3,660	9.64	5.36*	5.79	5.41
Burleigh	59,587	0.07*	- 2.61	- 0.35	- 1.68
Cass	95,600	- 2.87	- 5.46	1.63	1.63*
Cavalier	6,939	6.02	1.70*	12.68	11.93
Dickey	7,054	4.35	- 1.20*	7.67	7.66
Divide	3,400	10.00	3.88	3.40	3.09*
Dunn	5,007	- 2.82*	- 8.31	- 8.31	-10.78
Eddy	3,255	14.01	10.81	9.89	9.89*
Emmons	5,712	- 4.69	- 9.73	1.52	- 0.19*
Foster	4,599	6.72	2.78	2.78	2.78*
Golden Valley	2,495	3.97	- 1.96*	- 5.53	- 8.10
Grand Forks	68,685	- 2.53*	- 8.42	4.82	4.81
Grant	4,237	0.49*	- 5.14	3.99	2.50
Griggs	3,605	9.54	5.33	4.99	4.99*
Hettinger	4,027	10.73	5.29	0.92*	- 1.79
Kidder	3,861	5.67	1.66*	3.96	3.13
LaMoure	6,133	11.69	6.36*	9.72	9.68
Logan	3,276	5.80	2.35*	7.81	7.63
McHenry	7,629	3.97	- 1.62*	5.07	4.47
McIntosh	4,523	7.63	4.98	3.96	3.87*
McKenzie	8,703	-14.09	-18.76	-12.96	-12.96*
McLean	12,479	8.72	4.21*	16.31	13.94
Mercer	15,137	-37.64	-40.74	14.03	13.45*
Morton	25,718	7.10	1.89*	6.08	5.11
Mountrail	8,053	1.60	- 3.02	- 0.82*	- 0.92
Nelson	5,015	2.33	- 0.10*	2.63	2.61
Oliver	2,775	-10.67	-15.39	- 5.40*	- 6.96
Pembina	10,308	5.84	- 1.09*	2.93	2.88
Pierce	5,912	10.44	3.76*	6.36	5.18
Ramsey	12,996	3.49	0.87*	6.29	6.28
Ransom	6,551	2.56	- 2.55*	4.08	3.40
Renville	3,633	3.11	- 0.91*	2.42	2.34
Richland	19,371	2.11*	- 3.34	3.82	3.78
Rolette	13,649	-15.04	-18.98	- 0.49*	- 1.55
Sargent	5,266	11.03	5.37*	6.70	5.23
Sheridan	2,649	8.46	3.81*	7.17	6.98
Sioux	3,777	3.36	- 3.65	4.79	2.54*
Slope	1,226	- 3.02*	- 9.22	- 9.14	-11.58
Stark	26,562	- 6.70*	-10.17	- 7.12	- 9.62
Steele	2,930	8.19	2.12*	6.28	5.73
Stutsman	23,696	4.13	1.12*	7.83	7.81
Towner	4,158	1.56	- 0.99	- 0.17	- 0.17*
Traill	9,616	2.34*	- 3.94	2.77	2.72
Walsh	15,707	0.51	- 3.97	- 0.17*	- 0.20
Ward	61,408	- 0.74*	- 2.95	3.40	3.38
Wells	6,849	4.69	0.31*	2.34	2.32
Williams	27,647	-10.19*	-16.78	-13.38	-13.58

estimates by county and the percentage difference between those estimates and the four sets of projections. A negative sign indicates that the projection was lower than the estimate and a positive sign indicates that the projection was higher than the estimate.

A second assumption that needs to be made when projecting labor force concerns the participation rates for males and females. In 1970, 54 percent of the population age 16 and over was in the labor force. By 1980 that figure had climbed to over 61 percent (Bureau of the Census, 1983). Much of this rise can be attributed to an increase in the proportion of women entering the labor force. In 1970, 35.4 percent of women age 16 and over were in the labor force. That figure rose to over 47 percent in 1980. Meanwhile, labor force participation rates for men remained nearly constant in 1970 and 1980 at 72.6 percent and 75.6 percent, respectively. Labor force participation rates calculated by the North Dakota Job Service for 1986 were 78.9 percent for men and 58.9 percent for women.

Age and gender are key factors affecting labor force participation rates. In 1980 the labor force participation rate for men ages 16 through 19 was 55.1 percent. For men ages 20 through 24, 25 through 54, 55 through 64, and 64 and over, respectively, it was 84.0 percent, 94.0 percent, 75.2 percent, and 22.0 percent. At the same time, the labor force participation rate for women ages 16 through 19 was 50.1 percent. For women ages 20 through 24, 25 through 54, 55 through 64, and 64 and over, respectively, it was 68.4 percent, 58.5 percent, 38.1 percent, and 8.2 percent. According to the North Dakota Job Service, men's rates by age in 1986 were virtually unchanged from those in 1980. However, women's rates by age increased substantially. The 1986 labor force participation rates for women ages 16 through 19, 20 through 24, 25 through 54, 55 through 64, and 64 and over were 58.9 percent, 77.0 percent, 73.2 percent, 47.7 percent, and 8.1 percent, respectively.

Thus, for the purposes of this report, labor force participation rates of men shall be held constant, while those of women shall be assumed to be increasing. From 1985 to 1990, rates for women age 16 through 24 shall be assumed to increase at 10 percent over the 1980 rates. Rates for women age 25 through 54 shall be assumed to increase 20 percent over the 1980 rates. From 1995 to 2000, rates for women age 16 through 19 shall be assumed to increase 10 percent over the 1980 rates; women age 20 through 25, 15 percent; and women age 25 through 54, 25 percent. Labor force participation rates of women age 65 and over shall be assumed to be constant at the 1980 level. Labor force participation rates for North Dakota counties by age and gender as of 1980 are listed in Table 2.

Results

The total number of North Dakotans in the labor force age 16 and over was 298,422 in 1980. Of these, 183,426 were male and 114,996 were female (Figure 1). Given the assumptions described above, the potential labor force is projected to increase to 343,673 in 1985; to 358,035 in 1990; to 385,329 in 1995; and 406,411 in 2000. Thus, the potential labor force in the state is projected to increase by about 35 percent over the two-decade period of 1980 to 2000. These increases are the result of a slight growth in population and a moderate increase in the percentage of women entering the labor force.

As the state's population shifts to urban centers, a greater proportion of the labor force will be concentrated in the state's four largest counties (Burleigh, Cass, Grand Forks, and Ward). Slightly over 46 percent of the projected labor force

TABLE 2. PERSONS IN LABOR FORCE AS A PERCENTAGE OF ALL PERSONS BY GENDER, 1985-2000

County	Males				Females			
	1985	1990	1995	2000	1985	1990	1995	2000
Adams	88.23	90.52	88.69	89.73	64.88	66.14	68.94	69.57
Barnes	83.27	84.52	84.94	85.63	56.82	57.90	60.41	60.73
Benson	76.17	78.70	77.55	77.99	45.97	47.00	48.54	48.84
Billings	92.95	97.73	95.52	95.12	46.22	46.56	49.04	50.50
Bottineau	78.78	80.74	80.07	80.91	49.28	50.20	52.77	53.08
Bowman	93.17	93.25	92.56	93.78	65.12	66.20	68.53	69.09
Burke	81.51	82.16	82.42	82.70	36.47	38.00	39.06	39.37
Burleigh	88.50	88.95	88.04	88.82	76.54	76.22	78.86	79.32
Cass	85.46	86.39	85.95	85.83	74.89	74.74	77.27	77.60
Cavalier	73.62	74.39	73.86	74.51	46.06	46.00	47.35	47.96
Dickey	83.41	85.84	85.97	85.98	65.38	66.67	68.90	68.70
Divide	83.95	86.39	87.48	87.09	44.02	46.80	47.95	49.55
Dunn	91.90	93.44	92.38	92.31	45.17	46.06	47.65	48.29
Eddy	84.83	87.29	85.87	87.24	52.40	53.58	56.08	57.41
Emmons	74.25	76.72	76.68	80.02	48.06	49.50	53.08	55.14
Foster	88.53	88.32	89.95	89.93	59.12	60.12	61.96	63.36
Golden Valley	78.21	79.44	79.64	77.62	49.77	50.70	53.05	53.13
Grand Forks	85.75	87.34	86.95	86.95	70.72	70.88	73.18	73.42
Grant	88.19	88.23	89.50	89.85	61.20	62.17	64.28	65.65
Griggs	84.87	85.69	86.66	88.58	50.85	51.50	53.84	56.58
Hettinger	85.03	86.78	88.19	88.01	62.06	63.86	68.11	68.86
Kidder	85.23	86.05	86.24	86.57	47.73	49.67	51.21	51.34
LaMoure	82.10	83.05	83.83	83.72	48.17	48.59	50.18	50.86
Logan	80.59	82.81	84.76	84.37	48.91	52.14	52.85	53.59
McHenry	82.45	84.35	83.38	84.74	43.20	43.69	45.89	46.27
McIntosh	81.04	82.78	83.59	84.91	62.96	64.42	66.77	68.38
McKenzie	87.08	88.27	88.25	88.31	54.79	55.84	58.36	58.83
McLean	80.31	81.44	81.00	82.14	45.85	46.72	48.53	49.04
Mercer	90.02	90.34	89.39	89.47	55.26	55.21	57.14	56.80
Morton	86.84	87.64	86.61	87.56	67.26	67.30	69.43	70.29
Mountrail	82.21	83.53	84.23	84.80	57.28	57.76	61.28	61.86
Nelson	73.65	75.10	75.06	76.29	48.44	49.05	51.59	52.28
Oliver	87.24	89.43	88.34	89.78	42.22	42.48	44.13	44.39
Pembina	80.82	81.56	81.29	83.06	59.39	59.62	62.20	63.39
Pierce	84.67	86.27	85.40	86.01	61.52	61.95	64.15	64.23
Ramsey	83.11	84.68	84.70	85.26	69.59	70.29	73.46	74.06
Ransom	81.30	81.93	82.57	83.62	54.96	55.78	57.55	58.21
Renville	80.90	81.95	82.59	82.95	45.69	45.88	47.78	48.10
Richland	80.18	83.78	83.28	82.91	59.54	58.88	60.63	61.44
Rolette	63.33	65.76	66.03	65.41	59.38	61.01	62.70	62.83
Sargent	84.77	85.25	85.84	87.57	52.59	53.58	55.89	57.05
Sheridan	79.27	80.87	80.79	82.15	53.27	53.58	55.79	56.85
Sioux	78.13	79.94	79.64	79.42	61.34	62.73	65.00	64.22
Slope	82.82	88.51	86.19	88.34	46.84	47.80	50.78	52.73
Stark	86.75	87.82	86.67	87.27	65.08	65.46	67.75	68.33
Steele	83.87	86.10	86.26	87.38	43.66	44.07	45.60	47.78
Stutsman	83.86	84.54	84.15	85.15	64.49	64.49	66.60	67.43
Towner	72.58	73.94	74.58	74.00	51.18	51.32	54.25	55.71
Traill	82.65	84.52	84.39	84.41	58.00	58.42	60.22	61.67
Walsh	76.50	77.85	77.68	78.06	53.73	54.52	56.35	57.45
Ward	89.06	89.42	88.73	89.23	69.51	68.50	70.53	71.50
Wells	80.82	81.94	82.21	82.74	48.76	49.27	50.71	51.43
Williams	91.21	91.78	90.92	91.40	64.21	64.33	67.00	67.48

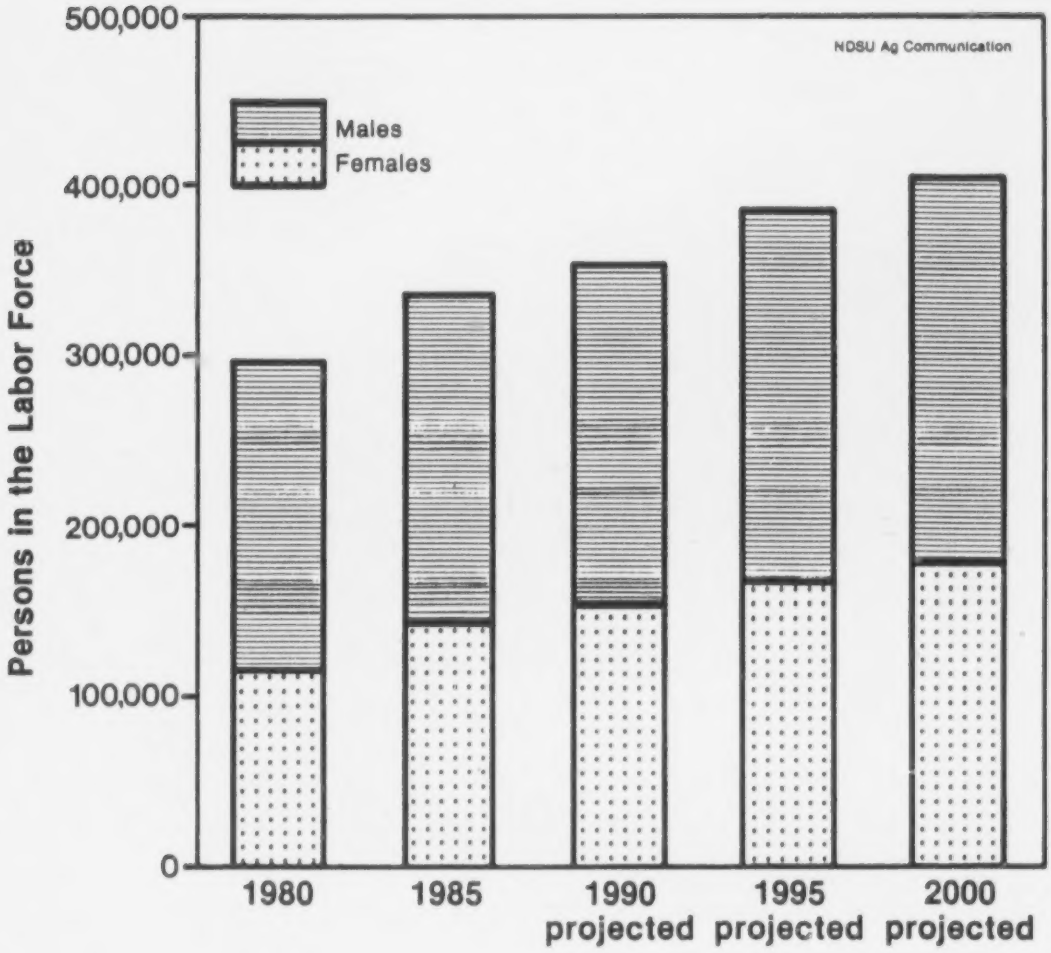

FIGURE 1. NORTH DAKOTA'S LABOR FORCE BY GENDER, 1980-2000.

was found in these four counties in 1985. By the year 2000, nearly 50 percent of the state's projected labor force will be found in these four counties (Table 3).

Projected numbers of males and females in the labor force of North Dakota's counties by age are listed in the following appendixes:

1985 - Appendix Tables 1A and 1B
1990 - Appendix Tables 2A and 2B
1995 - Appendix Tables 3A and 3B
2000 - Appendix Tables 4A and 4B

Comments

Projections are as accurate as the assumptions on which they are built. If we accept the assumptions that the birth and death rates shall not change appreciably, that economic conditions affecting migration rates shall continue similar to those in the early 1980s, and that women's labor force participation shall increase while men's will hold constant, then the projections calculated in this report should offer a reasonable glimpse at North Dakota's future labor force. However, should any of these assumptions be changed, different future scenarios would emerge.

These labor force projects suggest a number of implications for policy-makers and development organizations. First, North Dakota's potential labor force is growing. It would be more than adequate for an expansion of business and industrial employment. Second, the projections calculated in the report presuppose some growth in business and industrial employment. Without this growth, the labor force could be expected to fall short of the projected figures. Thus, entrepreneurs and development organizations can promote a strong potential labor force. However, their efforts will be necessary if employment opportunities are to continue to grow along with the work force.

TABLE 3. TOTAL PROJECTED LABOR FORCE FOR NORTH DAKOTA COUNTIES, 1985-2000

County	Total Projected Labor Force			
	1985	1990	1995	2000
Adams	1,811	1,778	1,784	1,704
Barnes	6,480	6,514	6,886	6,990
Benson	2,990	3,019	3,112	3,178
Billings	572	551	551	542
Bottineau	3,958	3,977	4,110	4,107
Bowman	2,265	2,268	2,333	2,293
Burke	1,478	1,441	1,424	1,403
Burleigh	34,504	38,095	43,766	47,928
Cass	54,130	59,213	65,845	72,004
Cavalier	2,799	2,834	2,968	3,178
Dickey	3,316	3,455	3,801	4,084
Divide	1,445	1,416	1,380	1,278
Dunn	2,256	2,167	2,156	2,092
Eddy	1,566	1,586	1,641	1,666
Emmons	2,370	2,285	2,232	2,155
Foster	2,226	2,339	2,525	2,651
Golden Valley	984	955	951	925
Grand Forks	37,572	38,682	41,150	43,736
Grant	2,105	2,042	2,051	2,053
Griggs	1,661	1,671	1,744	1,777
Hettinger	2,007	1,896	1,842	1,725
Kidder	1,693	1,651	1,638	1,625
LaMoure	2,691	2,692	2,784	2,835
Logan	1,437	1,430	1,504	1,552
McHenry	3,082	3,069	3,094	3,060
McIntosh	2,256	2,253	2,309	2,316
McKenzie	3,499	3,601	3,732	3,778
McLean	5,325	5,476	5,548	5,473
Mercer	7,957	7,794	8,561	9,557
Morton	13,378	14,056	15,564	16,535
Mountrail	3,516	3,605	3,729	3,807
Nelson	2,016	1,990	2,021	2,043
Oliver	1,154	1,223	1,355	1,463
Pembina	4,685	4,677	4,855	4,899
Pierce	2,901	2,926	3,054	3,154
Ramsey	6,702	7,120	8,074	8,874
Ransom	2,777	2,752	2,838	2,804
Renville	1,485	1,497	1,545	1,574
Richland	9,572	10,130	10,797	11,163
Rolette	4,974	5,265	5,692	5,972
Sargent	2,567	2,682	2,886	3,065
Sheridan	1,255	1,215	1,198	1,161
Sioux	1,583	1,508	1,460	1,366
Slope	547	520	508	482
Stark	12,807	13,424	14,507	14,936
Steele	1,306	1,266	1,268	1,239
Stutsman	12,216	12,352	13,215	13,858
Towner	1,628	1,636	1,679	1,677
Traill	4,538	4,573	4,779	4,905
Walsh	6,732	6,888	7,089	7,204
Ward	33,095	34,154	36,809	39,038
Wells	2,870	2,918	3,038	3,113
Williams	12,932	13,509	14,448	14,412

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APPENDIX TABLES

APPENDIX TABLE 1a. PROJECTED NUMBER OF MALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1985

County	Age												Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
Adams	86	129	126	126	121	88	88	82	67	59	22	48	1,042
Barnes	239	555	652	511	395	289	287	271	199	248	64	147	3,856
Benson	126	325	249	210	181	156	155	142	103	107	46	98	1,900
Billings	29	57	50	43	39	24	24	33	30	26	22	22	399
Bottineau	166	360	330	288	287	209	208	189	139	143	35	79	2,435
Bowman	130	196	161	163	134	104	104	98	85	80	25	63	1,343
Burke	69	134	103	104	104	81	80	102	79	84	25	62	1,026
Burleigh	1,480	2,344	2,745	2,847	2,340	1,475	1,461	1,170	983	768	203	329	18,145
Cass	1,985	3,802	5,705	4,824	3,448	2,243	1,839	1,685	1,381	1,234	278	481	18,904
Cavalier	110	298	208	194	183	141	141	161	125	115	22	57	1,757
Dickey	170	234	272	247	207	145	144	134	109	122	35	64	1,884
Divide	53	138	100	88	107	72	69	72	67	92	39	67	964
Dunn	136	218	202	175	135	112	111	102	100	111	60	99	1,562
Eddy	70	150	123	118	89	60	96	69	62	71	20	50	981
Emmons	142	247	135	140	122	118	123	140	123	96	23	46	1,455
Foster	142	181	166	141	133	95	94	114	86	96	22	50	1,320
Golden Valley	46	98	61	78	51	51	51	38	36	49	19	40	619
Grand Forks	1,333	3,454	5,309	3,372	2,250	1,427	1,219	1,014	810	775	150	242	21,356
Grant	134	186	121	141	123	91	90	103	92	111	29	68	1,288
Griggs	74	136	121	145	118	79	63	75	89	102	25	53	1,080
Hettinger	105	167	127	148	99	103	74	115	73	87	26	45	1,168
Kidder	64	155	108	109	109	85	85	107	78	84	30	74	1,088
LaMoure	96	236	218	224	172	139	138	156	117	136	32	69	1,731
Logan	69	138	87	84	93	68	67	71	57	89	34	59	916
McHenry	136	320	227	236	210	154	153	181	143	131	51	129	2,072
McIntosh	91	186	123	114	88	90	116	123	132	130	30	62	1,283
McKenzie	179	337	325	312	225	193	152	142	102	122	61	93	2,242
McLean	222	488	433	486	423	292	290	249	193	228	60	118	3,482
Mercer	441	724	900	1,017	687	437	341	265	157	134	32	45	5,181
Morton	692	1,158	1,078	1,119	878	586	583	573	438	353	86	169	7,714
Mountrail	161	284	254	264	211	181	165	148	120	152	56	100	2,096
Nelson	48	193	119	138	114	106	105	120	95	112	29	75	1,254
Oliver	44	107	105	108	105	67	58	69	48	48	20	28	807
Pembina	154	385	337	395	324	217	216	240	176	182	41	89	2,757
Pierce	177	324	185	170	143	138	137	132	107	102	23	64	1,702
Ramsey	264	579	459	458	416	285	283	286	229	248	43	95	3,644
Ransom	102	264	175	222	191	137	139	141	93	117	32	74	1,691
Renville	93	141	97	125	107	85	84	79	59	61	12	31	974
Richland	315	990	1,276	814	519	358	355	366	284	314	73	158	5,823
Rolette	207	421	348	327	274	232	198	202	123	127	27	42	2,529
Sargent	95	245	214	226	184	141	140	121	95	120	23	50	1,655
Sheridan	52	95	73	72	76	67	66	83	75	74	12	23	767
Sioux	96	158	121	119	91	78	62	54	35	43	13	21	892
Slope	16	52	49	44	39	24	24	32	28	23	16	17	364
Stark	533	1,136	1,470	1,170	835	519	517	455	308	258	71	129	7,401
Steele	63	127	96	104	86	73	72	81	66	69	18	32	887
Stutsman	530	892	1,049	969	761	519	516	524	433	413	103	207	6,918
Towner	61	174	118	114	87	69	82	69	57	76	24	52	984
Traill	148	352	435	347	267	217	216	203	152	165	55	124	2,691
Walsh	297	512	498	534	408	348	313	330	272	265	70	143	3,991
Ward	1,744	3,408	3,234	2,845	1,933	1,462	1,240	1,070	821	694	168	308	18,927
Wells	151	276	194	206	156	152	151	163	112	110	34	93	1,798
Williams	690	1,089	1,282	1,240	841	553	546	470	389	347	119	208	7,773

APPENDIX TABLE 1b. PROJECTED NUMBER OF FEMALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1985

County	Age											Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
Adams	76	118	88	92	85	60	60	63	49	51	9	18	768
Barnes	270	440	397	306	243	193	193	202	136	144	28	72	2,624
Benson	85	156	131	132	117	85	85	95	74	73	16	40	1,090
Billings	20	36	18	21	15	13	13	18	7	7	2	5	174
Bottineau	178	247	184	152	172	126	126	115	70	87	19	47	1,523
Bowman	95	122	123	120	101	82	82	74	45	43	11	24	922
Burke	40	78	39	40	44	34	38	50	36	33	6	12	452
Burleigh	1,612	2,545	2,805	2,400	1,890	1,256	1,249	1,027	667	595	98	212	16,358
Cass	1,967	4,198	5,121	3,965	2,655	1,842	1,590	1,540	1,068	956	94	231	255,227
Cavalier	129	189	85	111	87	83	83	91	70	68	12	32	1,042
Dickey	137	179	197	158	144	123	123	116	87	90	21	56	1,432
Divide	41	78	45	50	49	38	38	46	34	34	10	19	480
Dunn	72	142	77	72	63	51	51	51	38	41	15	22	694
Eddy	54	73	73	74	54	45	48	64	39	41	6	15	585
Emmons	77	140	86	83	89	88	89	106	69	68	6	15	915
Foster	101	152	112	98	87	63	72	78	56	43	13	30	906
Golden Valley	33	63	38	38	41	30	30	32	19	20	6	14	365
Grand Forks	1,095	2,794	3,945	2,452	1,595	1,098	993	845	561	538	82	218	16,215
Grant	59	129	76	99	88	71	71	85	55	57	9	21	818
Griggs	42	62	73	62	68	45	42	62	43	35	13	33	581
Hettinger	87	114	93	81	74	60	72	90	51	63	18	36	838
Kidder	48	83	52	53	58	50	50	66	48	44	17	36	604
LaMoure	73	161	99	99	82	80	80	98	67	67	15	41	961
Logan	35	68	47	55	60	44	43	57	37	35	14	28	522
McHenry	98	154	96	113	89	96	96	93	61	71	12	32	1,010
McIntosh	71	130	88	85	72	95	101	115	76	73	17	50	973
McKenzie	148	175	179	164	130	119	86	91	60	58	18	28	1,256
McLean	186	221	230	276	206	154	153	150	98	103	22	45	1,843
Mercer	493	321	452	510	367	199	164	134	64	46	10	16	2,776
Morton	665	960	789	764	629	438	437	403	244	217	35	82	5,664
Mountrail	152	191	173	174	141	126	117	126	68	91	18	43	1,420
Nelson	55	103	64	75	75	67	67	80	65	78	8	24	762
Oliver	47	46	43	45	35	31	26	23	28	22	0	0	348
Pembina	194	297	203	235	206	160	160	176	109	112	21	54	1,928
Pierce	135	224	144	125	95	105	105	94	56	61	13	42	1,200
Ramsey	312	533	426	380	299	238	237	229	137	150	32	85	3,058
Ransom	105	167	109	127	113	82	82	98	67	63	20	53	1,086
Renville	55	91	50	51	56	48	48	48	21	22	5	16	511
Richland	272	846	623	439	320	250	249	274	200	192	21	62	3,749
Rolette	207	421	353	312	240	206	171	179	131	141	28	55	2,445
Sargent	74	163	104	113	103	82	81	81	39	41	9	21	912
Sheridan	18	84	48	45	45	45	45	54	42	44	6	12	488
Sioux	81	113	100	88	60	60	62	51	33	32	5	7	691
Slope	10	16	20	23	17	14	14	19	13	13	8	14	182
Stark	586	913	1,000	728	548	368	367	352	224	211	34	74	5,406
Steele	26	74	38	42	47	39	39	42	22	24	8	17	419
Stutsman	532	775	829	729	570	432	431	455	229	197	34	86	5,299
Towner	50	109	75	61	59	44	53	59	42	48	11	32	644
Traill	150	350	287	204	166	141	141	145	102	112	16	43	1,857
Walsh	270	423	311	311	260	217	211	203	207	202	37	88	2,741
Ward	1,376	3,394	2,393	1,820	1,277	994	882	793	569	510	48	111	14,168
Wells	121	188	100	99	98	88	87	103	68	64	15	41	1,072
Williams	629	854	806	687	506	380	377	331	223	224	45	95	5,159

APPENDIX TABLE 2a. PROJECTED NUMBER OF MALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1990

County	Age 15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total
Adams	67	132	124	119	119	114	83	81	63	61	16	49	1,026
Barnes	234	368	624	634	496	383	279	275	191	185	63	147	3,877
Benson	104	308	307	232	194	167	144	141	94	91	36	97	1,916
Billings	20	43	60	46	40	35	22	22	27	27	13	28	382
Bottineau	144	298	382	319	277	276	200	197	133	128	28	74	2,455
Bowman	110	177	183	152	153	127	97	96	79	77	27	60	1,338
Burke	60	118	138	98	98	98	76	75	74	72	25	59	992
Burleigh	1,552	2,143	2,704	2,935	2,970	2,387	1,508	1,462	982	937	221	371	20,175
Cass	2,175	2,668	4,927	5,998	4,978	3,512	2,277	1,826	1,360	1,283	313	523	31,839
Cavalier	98	247	287	205	191	180	139	136	121	118	22	56	1,799
Dickey	159	233	271	272	245	205	143	141	107	104	27	69	1,975
Divide	50	119	128	97	86	104	69	65	54	60	32	72	936
Dunn	97	187	194	186	162	124	103	101	91	88	53	102	1,488
Eddy	48	147	151	122	117	88	59	93	52	57	19	45	999
Emmons	91	248	230	123	126	109	106	108	86	103	21	42	1,393
Foster	151	206	175	165	139	131	93	91	91	79	24	46	1,391
Golden Valley	38	78	96	56	72	47	47	46	33	32	19	40	602
Grand Forks	1,224	1,968	4,396	4,969	3,042	2,197	1,186	1,175	780	755	163	248	22,103
Grant	106	187	179	112	130	113	83	82	85	82	33	60	1,253
Griggs	65	135	138	121	144	117	78	61	59	82	27	53	1,081
Hettinger	79	158	155	115	135	90	92	66	78	62	22	45	1,098
Kidder	55	137	146	103	104	104	80	79	73	71	30	71	1,055
LaMoure	92	210	253	210	215	165	133	131	111	108	31	70	1,729
Logan	67	108	132	87	84	92	66	65	56	54	29	65	905
McHenry	111	279	322	216	225	200	145	144	135	131	42	124	2,074
McIntosh	68	181	188	126	115	88	89	112	103	122	29	62	1,281
[illegible]enzie	179	289	323	311	297	213	182	141	106	90	52	104	2,286
McLean	214	460	488	424	471	409	283	277	187	180	56	125	3,575
Mercer	397	685	643	798	850	590	381	277	182	130	33	52	5,020
Morton	614	1,061	1,176	1,065	1,103	864	575	566	426	414	90	184	8,137
Mountrail	161	285	285	248	258	205	174	158	105	109	53	104	2,144
Nelson	36	165	185	117	136	111	103	101	92	89	29	72	1,238
Oliver	37	127	108	104	106	103	65	56	57	45	21	32	861
Pembina	144	344	374	324	380	311	207	204	166	162	40	90	2,745
Pierce	122	286	302	177	163	137	132	130	101	98	22	58	1,729
Ramsey	239	419	702	480	470	421	287	281	226	219	45	94	3,882
Ransom	101	214	249	168	213	184	133	131	88	86	32	72	1,670
Renville	80	128	152	93	119	101	80	79	56	54	12	29	984
Richland	297	418	1,412	1,272	810	516	353	348	280	269	79	151	6,205
Rolette	177	402	516	327	308	257	216	182	126	108	25	46	2,691
Sargent	90	222	245	214	224	182	139	137	93	91	26	52	1,715
Sheridan	39	91	107	70	68	72	63	62	71	68	11	23	745
Sioux	69	165	132	101	98	75	63	50	32	27	19	20	851
Slope	10	39	57	44	39	36	21	21	25	24	9	21	346
Stark	522	820	1,240	1,447	1,151	820	507	500	298	288	66	132	7,791
Steele	48	108	126	90	99	82	68	67	61	60	15	34	858
Stutsman	470	774	934	1,023	944	740	501	495	415	404	107	221	7,028
Towner	48	150	152	116	111	86	66	78	49	52	25	51	983
Traill	137	262	438	424	337	259	209	207	147	141	48	116	2,724
Walsh	255	492	569	493	528	402	340	301	260	250	63	141	4,095
Ward	1,687	3,156	2,826	3,042	2,553	1,920	1,230	1,214	804	780	169	320	19,701
Wells	133	245	290	192	203	154	148	146	108	105	31	87	1,842
Williams	678	880	1,064	1,273	1,232	829	543	531	381	364	108	221	8,105

APPENDIX TABLE 2b. PROJECTED NUMBER OF FEMALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1990

County	Age												Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
Adams	68	92	110	84	87	80	56	56	46	45	7	19	752
Barnes	250	274	464	387	298	237	188	186	131	130	24	70	2,638
Benson	71	153	179	122	123	108	79	79	68	68	15	39	1,104
Billings	17	36	24	16	19	14	12	12	6	6	3	5	169
Bottineau	144	202	247	177	147	165	122	121	67	66	18	46	1,522
Bowman	88	107	136	117	113	96	77	77	43	42	9	25	930
Burke	30	82	62	37	38	42	36	36	35	34	4	12	449
Burleigh	1,714	2,124	2,442	2,967	2,510	1,935	1,291	1,264	674	656	115	229	17,920
Cass	2,162	2,814	4,193	5,387	4,112	2,723	1,888	1,605	1,101	1,041	100	246	27,374
Cavalier	88	162	162	84	110	86	82	81	68	68	13	31	1,035
Dickey	125	152	215	197	157	143	122	122	86	86	18	55	1,480
Divide	30	92	55	44	49	48	37	37	29	32	7	21	481
Dunn	61	126	95	71	67	58	47	47	35	35	12	26	679
Eddy	44	81	75	72	73	53	44	47	38	37	5	16	586
Emmons	53	155	150	78	75	81	79	80	59	61	6	14	891
Foster	102	139	132	111	98	87	63	71	49	54	10	32	948
Golden Valley	34	46	55	36	35	38	28	28	18	17	5	14	352
Grand Forks	1,098	1,518	3,154	3,755	2,173	1,562	970	967	546	536	92	207	16,579
Grant	46	125	112	71	93	82	65	65	51	50	9	20	789
Griggs	43	80	59	73	62	67	45	42	32	42	13	35	591
Hettinger	61	131	107	86	74	67	55	65	54	45	17	38	799
Kidder	36	87	81	50	51	56	47	47	46	45	13	38	596
LaMoure	64	154	138	95	95	80	77	76	65	64	15	40	963
Logan	22	67	76	47	55	60	43	43	36	36	9	31	525
McHenry	82	146	141	92	108	85	92	91	58	57	13	32	995
McIntosh	49	134	139	90	85	72	95	99	69	73	16	50	971
McKenzie	171	171	164	172	157	125	112	81	55	56	15	35	1,315
McLean	178	231	243	226	269	200	149	148	96	94	19	49	1,902
Mercer	459	340	331	415	440	321	176	140	67	57	8	20	2,774
Morton	621	845	841	781	755	621	431	429	240	237	35	84	5,919
Mountrail	144	213	187	170	170	138	123	113	73	64	20	45	1,461
Nelson	40	116	98	63	74	74	65	65	63	63	9	23	752
Oliver	49	35	50	43	44	35	31	25	23	27	0	0	362
Pembina	186	273	261	196	227	198	154	154	104	104	21	54	1,931
Pierce	103	198	188	139	120	92	101	100	53	53	13	38	1,199
Ramsey	290	410	537	443	390	304	240	238	137	135	32	84	3,229
Ransom	93	153	148	105	123	109	78	78	64	64	16	51	1,082
Renville	46	95	70	48	49	53	46	45	20	20	6	15	513
Richland	282	439	740	624	554	320	248	246	199	195	21	58	3,925
Rolette	166	437	411	334	295	227	194	160	142	120	28	60	2,574
Sargent	70	180	126	104	112	103	81	81	39	39	9	22	967
Sheridan	15	76	64	45	43	43	43	43	40	39	6	13	470
Sioux	60	121	95	84	73	50	50	51	35	27	4	7	656
Slope	8	16	25	17	21	16	12	12	12	11	8	15	174
Stark	530	689	902	988	718	540	362	360	219	216	34	76	5,633
Steele	24	60	61	37	40	45	37	37	20	20	8	18	408
Stutsman	484	635	725	811	712	555	420	418	222	220	33	87	5,323
Towner	52	111	82	74	60	58	44	52	37	40	12	32	653
Traill	146	227	311	280	199	161	137	136	100	98	13	41	1,849
Walsh	242	430	332	309	309	257	214	207	170	198	33	92	2,793
Ward	1,353	2,794	2,117	2,268	1,618	1,271	877	873	564	556	48	115	14,453
Wells	98	181	147	98	97	97	86	86	66	66	13	40	1,076
Williams	667	656	761	804	685	501	376	371	222	216	44	102	5,404

APPENDIX TABLE 3a. PROJECTED NUMBER OF MALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1995

County	Age												Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
Adams	93	100	125	115	111	111	106	76	62	56	17	43	1,016
Barnes	301	366	422	617	625	488	375	270	196	180	47	148	4,036
Benson	131	254	291	285	215	180	154	131	94	84	31	88	1,939
Billings	30	29	46	56	43	37	33	20	18	25	14	25	376
Bottineau	182	259	316	367	306	266	264	190	138	121	25	64	2,499
Bowman	141	148	165	172	143	144	118	91	78	71	26	60	1,357
Burke	70	101	121	131	93	94	93	72	55	67	21	56	972
Burleigh	2,187	2,273	2,517	2,945	3,105	3,028	2,423	1,515	1,227	938	270	418	22,846
Cass	2,903	2,853	3,426	5,107	6,099	4,987	3,499	2,237	1,467	1,259	324	579	34,740
Cavalier	118	220	239	285	203	189	176	134	102	115	23	55	1,860
Dickey	208	221	274	275	275	245	204	141	113	102	23	66	2,148
Divide	56	109	106	120	92	80	96	64	47	47	20	65	903
Dunn	144	133	166	178	173	149	114	93	91	80	42	99	1,460
Eddy	73	100	145	147	119	114	86	56	68	47	15	40	1,011
Emmons	94	162	235	212	113	116	100	95	68	73	23	39	1,331
Foster	134	221	203	177	165	139	129	91	73	84	20	45	1,481
Golden Valley	45	63	75	88	52	67	42	42	38	29	12	38	591
Grand Forks	1,624	1,850	2,646	4,131	4,667	3,010	1,961	1,157	917	736	161	268	23,130
Grant	104	150	182	168	106	123	106	77	69	76	25	58	1,244
Griggs	82	118	138	137	120	143	114	75	48	54	22	54	1,107
Hettinger	81	119	147	141	106	123	82	83	45	66	16	42	1,050
Kidder	64	118	128	139	98	99	98	76	54	67	25	69	1,036
LaMoure	106	201	226	245	202	207	158	126	94	103	25	71	1,765
Logan	80	106	105	134	88	84	91	65	52	53	18	64	941
McHenry	132	227	280	306	206	213	188	136	106	122	42	112	2,069
McIntosh	66	140	187	194	130	116	89	87	94	94	27	61	1,285
McKenzie	204	282	270	301	290	276	197	166	103	93	38	98	2,318
McLean	273	418	432	449	389	434	376	257	198	166	42	121	3,554
Mercer	510	664	663	621	760	799	546	351	210	162	33	58	5,376
Morton	855	959	1,099	1,189	1,071	1,097	855	563	424	405	107	199	8,822
Mountrail	184	277	278	270	235	243	192	161	107	91	36	99	2,176
Nelson	46	124	160	183	116	134	110	100	78	87	24	72	1,234
Oliver	50	110	133	112	105	106	102	63	47	53	19	36	935
Pembina	181	320	334	360	313	366	298	197	142	154	36	91	2,792
Pierce	156	202	272	295	174	159	133	127	101	95	22	55	1,789
Ramsey	345	398	532	752	517	483	429	289	224	216	40	95	4,320
Ransom	124	211	203	240	161	205	174	125	81	81	23	71	1,700
Renville	85	113	140	147	89	114	98	76	57	52	10	28	1,008
Richland	454	398	603	1,414	1,274	806	512	348	266	265	68	154	6,562
Rolette	217	343	493	487	309	289	240	199	113	110	21	46	2,866
Sargent	112	212	223	245	215	223	180	136	106	88	20	57	1,819
Sheridan	46	69	103	102	66	64	68	59	53	64	10	22	726
Sioux	82	118	139	111	84	82	62	52	29	25	12	23	818
Slope	15	26	43	52	40	36	32	19	16	21	10	19	329
Stark	707	801	893	1,216	1,418	1,125	797	488	326	278	74	131	8,254
Steele	56	83	107	120	86	94	77	64	52	57	13	34	844
Stutsman	636	699	827	930	1,016	936	730	490	400	395	107	239	7,405
Towner	54	117	130	148	112	108	82	63	55	44	17	50	981
Traill	160	242	328	428	413	329	251	202	150	137	41	106	2,785
Walsh	303	417	539	553	479	510	385	322	233	234	59	132	4,167
Ward	2,101	3,100	2,596	2,672	2,773	2,546	1,691	1,210	917	765	190	330	20,891
Wells	143	218	259	286	189	199	151	144	97	102	30	81	1,900
Williams	1,003	839	837	1,026	1,227	1,185	794	516	422	351	112	218	8,529

APPENDIX TABLE 3b. PROJECTED NUMBER OF FEMALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 1995

County	Age												Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	
Adams	77	86	88	107	82	85	78	55	42	44	6	19	769
Barnes	309	269	306	478	398	306	243	192	128	133	22	66	2,851
Benson	89	134	184	174	119	119	105	76	59	65	14	37	1,173
Billings	19	31	25	23	16	18	14	12	4	6	2	5	175
Bottineau	175	170	209	248	178	147	166	121	73	66	14	45	1,611
Bowman	101	104	124	134	114	111	94	75	46	41	9	24	976
Burke	32	64	67	61	37	38	42	35	26	34	4	11	452
Burleigh	2,306	2,387	2,175	2,763	3,248	2,673	2,060	1,368	865	692	127	256	20,920
Cass	2,969	3,154	2,908	4,544	5,718	4,314	2,856	1,967	1,192	1,114	109	262	31,106
Cavalier	129	116	146	168	87	114	89	84	64	70	13	31	1,109
Dickey	180	148	194	229	209	165	150	127	95	88	18	52	1,654
Divide	39	68	65	54	43	48	47	36	23	27	6	20	477
Dunn	70	110	88	91	69	64	56	45	34	33	10	27	697
Eddy	63	68	86	78	74	75	54	45	29	38	5	15	630
Emmons	44	114	175	145	76	72	78	76	47	55	6	14	901
Foster	117	148	127	139	116	102	90	65	46	50	13	31	1,045
Golden Valley	41	48	41	53	34	34	36	26	15	17	4	12	360
Grand Forks	1,432	1,612	1,926	3,144	3,643	2,246	1,503	997	661	552	93	213	18,020
Grant	57	102	116	110	70	90	80	64	42	49	8	19	807
Griggs	51	86	79	61	76	64	69	46	22	33	15	35	637
Hettinger	54	96	129	103	81	71	65	51	41	50	12	39	793
Kidder	39	68	88	80	49	50	55	47	34	45	13	35	602
LaMoure	81	142	138	139	96	96	80	77	53	64	14	39	1,019
Logan	41	45	79	80	50	57	63	45	28	37	10	29	563
McHenry	89	128	140	140	91	107	84	90	59	57	10	31	1,025
McIntosh	64	99	151	151	98	91	76	99	62	69	16	49	1,024
McKenzie	185	202	163	160	168	153	121	109	50	52	14	35	1,413
McLean	228	220	251	235	217	259	193	143	93	91	16	47	1,994
Mercer	587	358	392	338	417	432	313	173	78	65	10	21	3,185
Morton	892	841	787	889	821	785	644	446	267	245	39	86	6,741
Mountrail	164	205	211	186	168	168	136	120	66	69	14	47	1,553
Nelson	46	88	116	102	66	76	76	67	54	65	7	23	787
Oliver	77	39	42	53	46	47	36	32	26	23	0	0	420
Pembina	227	274	250	262	197	228	199	154	95	103	19	54	2,063
Pierce	116	161	175	192	142	123	93	102	60	53	12	36	1,265
Ramsey	391	416	450	602	493	418	326	255	149	141	28	84	3,754
Ransom	111	142	141	149	105	123	109	78	53	63	17	47	1,138
Renville	48	85	77	70	48	49	53	46	20	20	6	15	537
Richland	407	480	405	777	654	457	332	257	187	202	22	55	4,235
Rolette	222	367	445	405	329	290	222	189	134	136	24	63	2,826
Sargent	79	182	146	133	109	117	106	84	40	40	8	23	1,068
Sheridan	16	68	61	64	45	43	42	42	33	39	6	14	472
Sioux	61	93	106	83	73	64	43	42	36	30	3	7	642
Slope	8	14	26	24	17	20	15	12	8	11	8	16	179
Stark	746	649	708	925	1,010	733	550	368	232	220	34	77	6,253
Steele	33	58	52	60	36	40	44	37	19	20	7	19	424
Stutsman	651	616	631	754	841	738	574	433	217	227	38	89	5,810
Towner	56	119	87	85	75	61	59	44	34	37	10	32	698
Traill	207	232	211	318	286	202	164	139	97	100	12	26	1,994
Walsh	275	395	345	337	314	313	259	215	178	167	32	90	2,922
Ward	1,735	2,907	1,811	2,102	2,169	1,686	1,208	909	648	574	52	118	15,918
Wells	120	154	148	152	101	99	99	88	58	67	14	38	1,138
Williams	863	706	593	766	808	688	502	375	253	219	42	104	5,919

APPENDIX TABLE 4a. PROJECTED NUMBER OF MALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 2000

County	Age												
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total
Adams	70	137	93	113	97	100	99	95	55	54	15	38	966
Barnes	241	462	412	408	598	604	469	358	189	181	45	133	4,102
Benson	126	317	237	266	261	196	163	138	86	82	28	76	1,978
Billings	28	44	30	42	51	39	34	29	16	16	13	23	364
Bottineau	149	320	268	297	346	287	249	245	130	124	23	56	2,494
Bowman	106	188	136	152	159	131	131	107	71	68	24	58	1,332
Burke	69	117	103	114	124	87	87	86	51	49	20	51	957
Burleigh	1,997	3,073	2,562	2,639	3,045	3,124	3,026	2,393	1,264	1,166	269	487	25,045
Cass	3,116	3,771	3,676	3,623	5,190	6,097	4,943	3,418	1,794	1,359	318	622	37,926
Cavalier	122	268	218	244	287	203	187	173	102	98	22	55	1,980
Dickey	214	283	254	272	274	273	241	198	112	107	22	60	2,308
Divide	54	113	91	93	106	79	69	82	42	38	15	48	830
Dunn	128	190	114	148	160	153	132	100	81	77	37	84	1,404
Eddy	64	145	96	138	140	113	108	80	40	60	12	34	1,030
Emmons	59	169	156	220	199	105	108	92	60	59	17	39	1,284
Foster	135	196	215	203	176	163	136	125	73	67	21	41	1,551
Golden Valley	51	72	57	66	77	45	57	37	33	33	10	28	567
Grand Forks	1,720	2,116	2,581	2,504	3,927	4,667	2,798	1,938	913	872	158	280	24,474
Grant	93	148	146	173	160	99	115	98	65	62	23	52	1,235
Griggs	76	145	116	132	132	115	135	108	58	43	14	49	1,123
Hettinger	68	119	108	132	128	95	110	72	55	38	17	36	980
Kidder	65	137	109	121	131	93	93	92	52	49	24	63	1,028
LaMoure	113	228	212	214	224	191	194	148	89	85	23	65	1,786
Logan	76	125	101	104	132	87	82	89	51	49	17	53	967
McHenry	105	266	224	263	287	192	198	174	99	95	39	102	2,045
McIntosh	67	130	140	187	194	128	114	86	72	86	21	59	1,285
McKenzie	176	323	265	254	283	270	256	181	122	90	39	84	2,342
McLean	219	525	387	392	407	353	391	334	180	172	38	104	3,501
Mercer	524	888	680	676	624	746	770	518	277	190	41	62	5,995
Morton	811	1,289	959	1,068	1,154	1,037	1,057	817	412	395	102	219	9,321
Mountrail	166	319	271	264	255	222	227	177	110	94	31	84	2,221
Nelson	37	157	120	158	181	114	132	106	77	74	23	67	1,246
Oliver	43	146	112	135	112	105	105	99	54	43	23	36	1,013
Pembina	145	399	308	317	343	296	345	278	134	129	34	87	2,815
Pierce	148	253	190	262	285	167	152	126	97	93	21	52	1,846
Ramsey	333	553	494	566	776	524	487	426	230	215	40	92	4,735
Ransom	106	252	192	187	221	149	187	158	75	72	21	60	1,680
Renville	83	117	122	134	140	86	109	92	54	52	10	26	1,024
Richland	429	584	551	584	1,369	1,230	775	488	258	245	65	142	6,719
Rolette	244	410	411	454	448	283	263	215	121	97	21	42	3,008
Sargent	87	264	214	224	246	213	220	176	106	101	20	55	1,926
Sheridan	34	80	78	98	97	63	60	63	50	48	10	21	702
Sioux	78	135	95	112	88	67	65	48	29	22	10	19	769
Slope	10	36	29	38	47	37	32	28	14	14	9	18	311
Stark	649	1,047	842	846	1,152	1,339	1,058	743	308	294	69	131	8,477
Steele	43	96	83	102	112	81	87	71	49	46	12	31	813
Stutsman	533	949	750	827	930	1,009	924	715	396	380	105	250	7,769
Towner	63	126	98	121	138	105	100	75	42	48	14	42	972
Traill	152	280	300	316	413	399	315	239	145	138	39	94	2,830
Walsh	281	491	453	521	534	460	487	363	247	209	54	122	4,222
Ward	2,005	3,655	2,520	2,423	2,395	2,758	2,304	1,658	913	872	186	354	22,042
Wells	136	232	228	254	280	184	193	145	95	91	29	76	1,943
Williams	885	1,174	755	763	934	1,115	1,072	712	387	366	101	205	8,470

APPENDIX TABLE 4b. PROJECTED NUMBER OF FEMALES IN THE LABOR FORCE OF NORTH DAKOTA COUNTIES, BY AGE, 2000

County	Age												
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total
Adams	69	94	77	81	98	74	77	70	38	38	6	17	739
Barnes	267	327	282	297	464	386	297	235	125	123	21	61	2,888
Benson	89	166	151	169	159	108	109	95	54	53	12	34	1,201
Billings	21	34	20	23	21	15	17	13	4	4	2	5	177
Bottineau	156	204	165	198	234	168	139	155	69	68	13	39	1,612
Bowman	84	116	113	115	124	106	102	86	42	42	8	23	961
Burke	36	68	49	63	58	35	36	39	24	24	4	11	446
Burleigh	2,258	3,083	2,240	2,288	2,855	3,269	2,687	2,060	893	848	128	286	2,883
Cass	3,106	4,283	3,127	3,094	4,634	5,740	4,316	2,841	1,399	1,157	112	280	34,078
Cavalier	143	174	102	149	170	87	114	88	64	62	12	32	1,198
Dickey	198	208	176	193	227	207	163	148	94	93	17	49	1,776
Divide	36	81	43	57	47	37	42	41	20	19	5	17	448
Dunn	70	123	71	79	82	61	57	49	30	29	9	24	688
Eddy	54	94	68	82	74	70	71	52	26	26	5	14	636
Emmons	30	97	125	165	136	71	68	72	43	43	5	14	871
Foster	102	169	128	128	139	115	101	89	40	44	11	32	1,100
Golden Valley	49	55	39	36	46	30	29	31	13	13	4	10	358
Grand Forks	1,404	2,085	2,015	1,881	2,956	3,654	2,145	1,503	661	646	92	219	19,262
Grant	53	130	90	109	105	66	86	76	39	38	7	18	819
Griggs	47	100	78	76	59	73	61	66	23	21	11	36	654
Hettinger	47	85	90	117	93	74	64	58	31	36	13	34	746
Kidder	44	73	65	83	76	46	47	52	32	32	12	34	596
LaMoure	85	174	119	131	132	90	90	75	50	49	13	37	1,049
Logan	36	82	50	79	79	49	57	62	28	27	9	27	585
McHenry	86	137	115	131	132	85	100	78	55	54	9	29	1,015
McIntosh	54	124	104	152	152	98	90	75	59	60	15	48	1,032
McKenzie	153	219	185	153	151	158	144	113	65	46	12	35	1,436
McLean	195	277	224	228	213	197	235	174	85	84	15	42	1,972
Mercer	599	474	413	401	341	411	420	301	96	74	11	24	3,562
Morton	874	1,164	722	767	866	797	761	622	261	257	37	89	7,214
Mountrail	146	233	194	201	176	160	158	128	67	61	14	42	1,586
Nelson	42	103	84	115	101	65	75	75	53	53	7	22	797
Oliver	66	61	43	43	54	46	46	36	31	25	0	0	450
Pembina	185	331	236	238	250	188	216	188	90	89	18	51	2,084
Pierce	134	179	135	170	186	137	118	89	58	57	11	33	1,308
Ramsey	400	543	426	480	625	501	424	328	153	148	28	81	4,139
Ransom	107	163	120	131	137	97	113	100	49	49	15	43	1,124
Renville	52	87	66	74	68	46	47	51	19	19	5	15	550
Rolette	225	479	348	411	374	303	266	203	147	119	25	60	2,964
Sargent	70	204	141	148	133	109	116	106	40	40	8	23	1,139
Sheridan	14	70	51	58	61	43	40	40	31	31	5	14	459
Sioux	66	91	76	86	67	59	51	34	28	28	3	7	597
Slope	6	14	21	23	22	15	18	14	7	7	7	16	171
Stark	693	883	616	673	878	958	694	519	220	216	32	76	6,459
Steele	21	78	48	49	57	34	37	41	18	18	6	18	427
Stutsman	586	831	588	634	755	837	732	569	216	213	37	95	6,090
Towner	54	125	86	82	79	70	57	55	26	31	9	29	705
Traill	169	326	204	204	308	276	195	157	95	93	11	34	2,075
Walsh	255	447	301	335	327	304	301	249	176	167	26	87	2,982
Ward	1,685	3,556	1,787	1,693	1,901	2,161	1,563	1,198	647	633	52	123	16,996
Wells	115	186	120	146	149	99	97	97	57	56	13	36	1,171
Williams	841	863	576	542	700	738	627	455	232	226	39	97	5,943